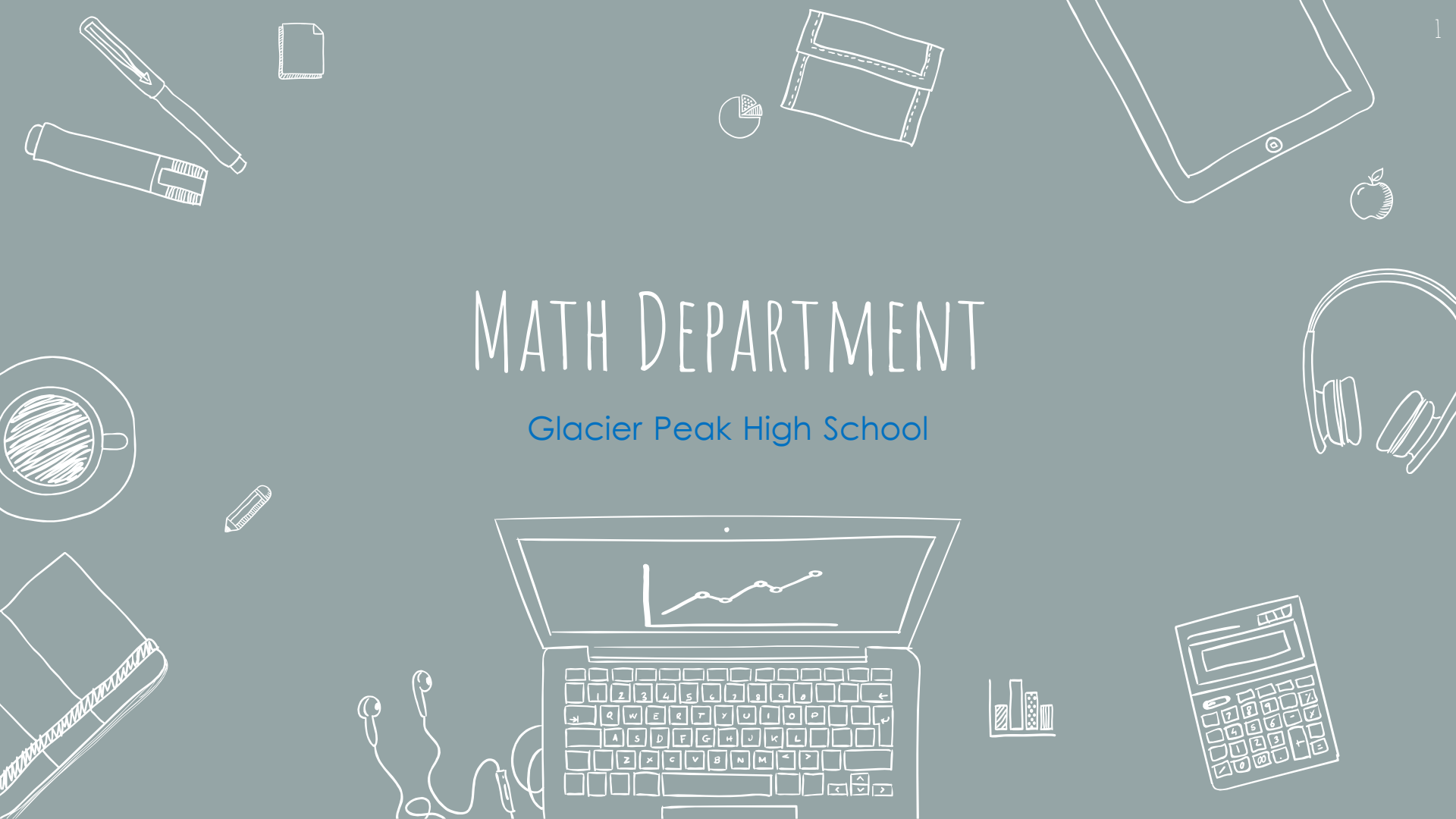


MATH DEPARTMENT

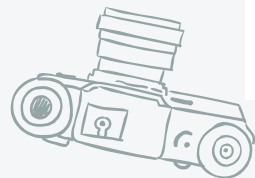
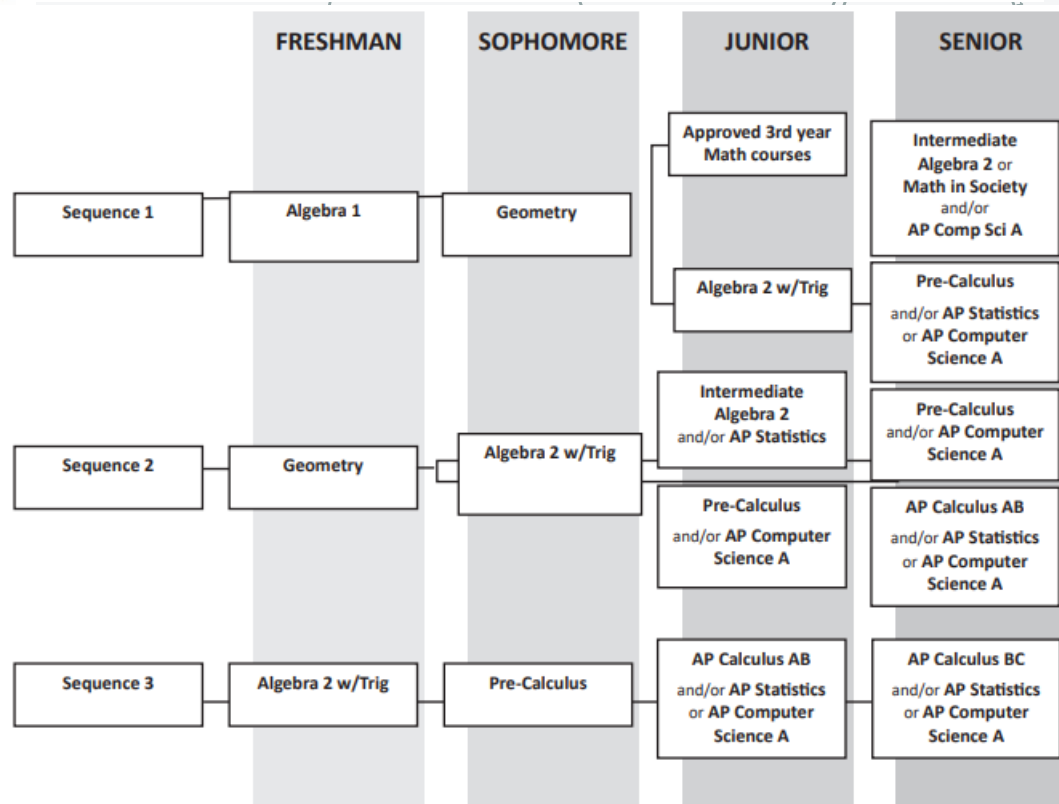
Glacier Peak High School





MATH

RECOMMENDED SEQUENCE





ALGEBRA 1 AND GEOMETRY

- ❖ Students in **8th grade math** at the middle school will be automatically enrolled in **Algebra 1**.
- ❖ Students passing **Algebra 1** at the middle school will be automatically enrolled in **Geometry**.
- ❖ Students passing **Geometry** at the middle school will be automatically enrolled in **Algebra 2 with Trigonometry**.

Valley View Middle School Math Teachers preregister students for the appropriate math course



ALGEBRA 2 WITH TRIGONOMETRY

- ❖ Students who have successfully completed Algebra 1 and Geometry may enroll in this course.
- ❖ This course builds significantly on the foundation laid in the previous two courses. Students should be prepared to be challenged in a way that they have not previously experienced in a math class.
- ❖ Topics for this course include Polynomial, Rational, Inverse, Exponential, Logarithmic, and Trigonometric Functions, as well as some Statistical Analysis.
- ❖ Students will have several math pathway options after completing this course, depending on how well they performed and what future plans they may be pursuing.

PRECALCULUS

- ❖ This course connects all math courses previously taken at the high school level in addition to some work beyond functions in the second semester.
- ❖ Heavy emphasis on Trigonometry, which has already been well introduced in Alg 2 w/ Trig.
- ❖ Some concepts included are Polynomial Functions, Logarithms, Trigonometry, Vectors, Conic Sections, and Polar and Parametric Equations.
- ❖ 10 College Credits (Math 141 & 142) available through EvCC



MATH IN SOCIETY — FOR JUNIORS OR SENIORS

- ❖ College-level coverage of practical applications of mathematics methods to areas of management, social sciences, biology and other fields.
- ❖ Some concepts included are Sets, Logic, Systems of Numeration, Probability, Graph Theory, The Metric System, Statistics, Consumer Mathematics, and Voting and Apportionment.
- ❖ Class is usually taken as a Senior and Alg2 is the pre-requisite.
- ❖ 5 College Credits (Math 107) available through EvCC

AP CALCULUS AB

- ❖ In AP Calculus AB, you will learn about limits, derivatives and integrals.
- ❖ We will take the math skills that you have learned in past math classes up to Pre-Calculus and use them to solve cool real-world problems involving rates of change and accumulation, among other applications.
- ❖ You may earn college credits by passing the AP Exam at the end of the year.

AP CALCULUS BC

- ❖ The prerequisite for this course is successful completion of AP Calculus AB and teacher recommendation.
- ❖ In AP Calculus BC, you will continue to refine the concepts of limits, derivatives and integrals from AP Calculus AB.
- ❖ Other topics include Sequences and Series, Applications of Calculus in Parametric Equations, and additional integration techniques.
- ❖ You may earn college credits by passing the AP Exam at the end of the year.

AP STATISTICS

- ❖ Learn to collect, interpret, organize, and analyze data.
- ❖ Topics covered include: Probability; Experimental Design; Confidence Intervals; Hypothesis tests, etc.
- ❖ Data are used to inform and persuade us. Become a more informed consumer of news, politics, and much more! Analyze the world around you with stats!
- ❖ Alg2 is the pre-requisite.
- ❖ Earn College credit by earning a 3 or higher on the AP Statistics Exam, or through EvCC (Math&146)

AP COMPUTER SCIENCE A

- ❖ Learn to write Object-Oriented software using the Java programming language.
- ❖ You will learn drone safety and write an Android app to control a DJI Mavic-Mini drone.
- ❖ Earn College credit by earning a 3 or higher on the AP CS-A Exam.
- ❖ Math credit with a strong emphasis on logic and reasoning.
- ❖ A must for future engineers and Computer Science majors.

BUSINESS MATH

- ❖ Learn to apply the math concepts you already know to solve 'real-world' problems in personal and business finance.
- ❖ Concepts we cover include: Calculating wages, Credit Card basics, Budgeting, Purchasing a car, Cost of production, Taxes (business & personal), and more.
- ❖ Business Math is a CTE course that counts as a third year math elective. Eligible students can earn 5 college credits at EvCC (Bus 130).
- ❖ This is a business based course and is not designed to prepare students for the college math placement test.